

Title: AFFINITY SELECTED SIGNATURE PEPTIDES FOR PROTEIN IDENTIFICATION AND QUANTIFICATION

Applicant(s): Fred E. Regnier et al.	Serial No.: Unassigned	Filed: Herewith
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The separation is based on the interaction of biotin with avidin

B

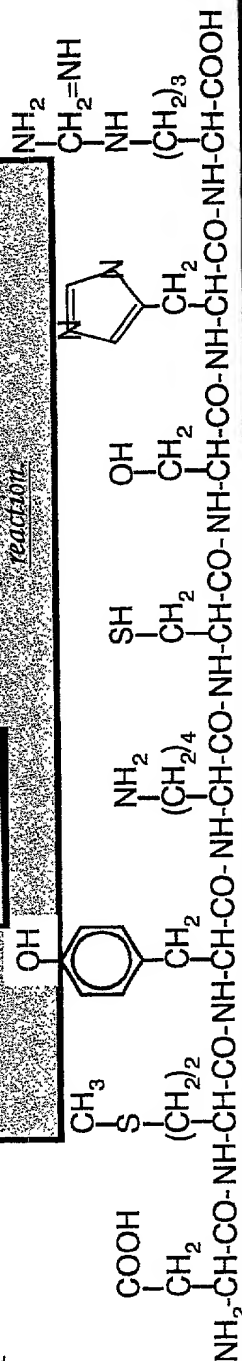
affinity tag used for selection



coupling arm with

derivitizing agent

Pepetides that contain a specific functional group are derivatized and selected. Specificity comes from the derivatization reaction.



100-5

All peptides in the sample are derivatized

Peptide selection can be achieved in a wide variety of ways. Specificity comes from the separation properties of the peptide

derivitizing agent

isotopic label

affinity
selection

AN UNCOUPLED STRATEGY

Fi.

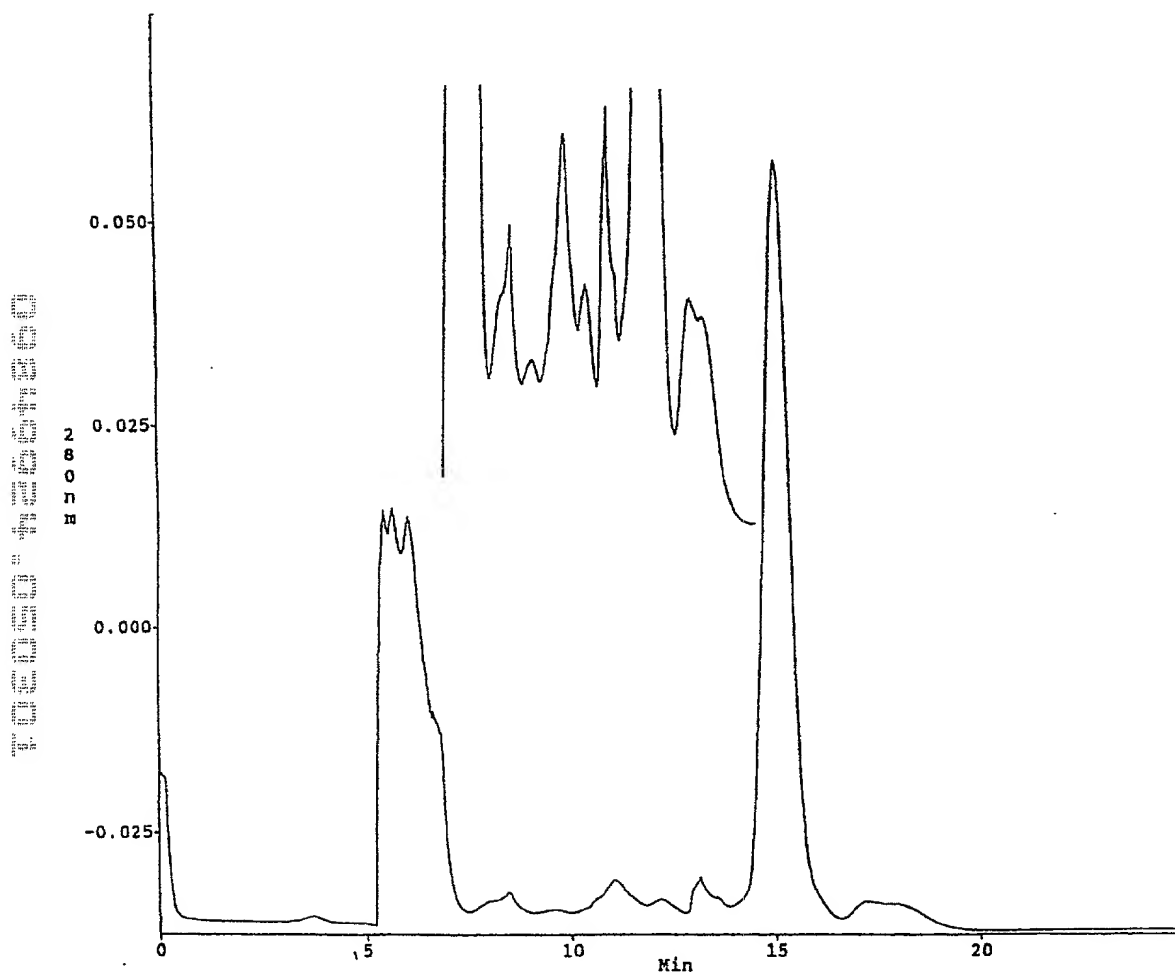


Fig. 2

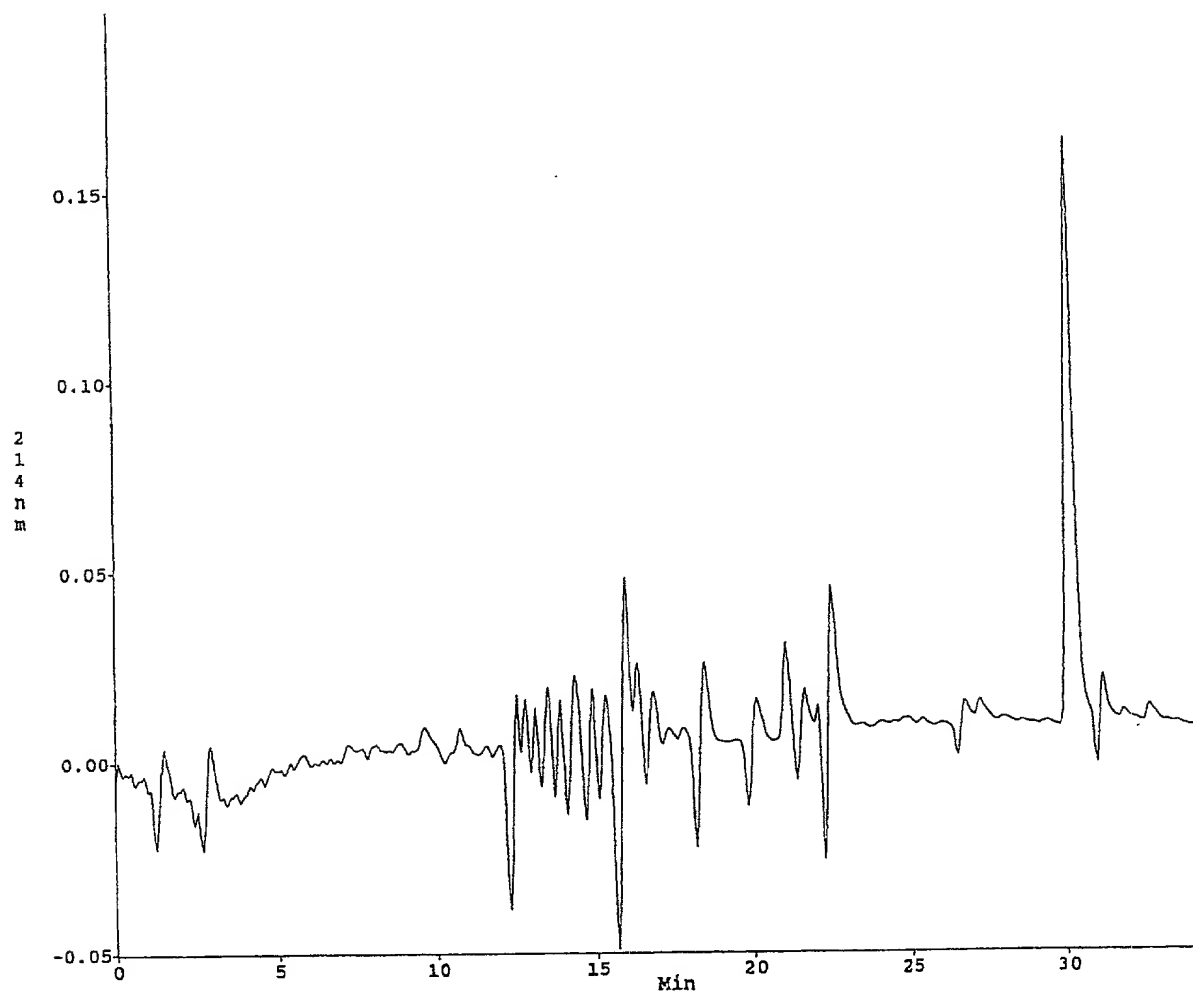


Fig. 3

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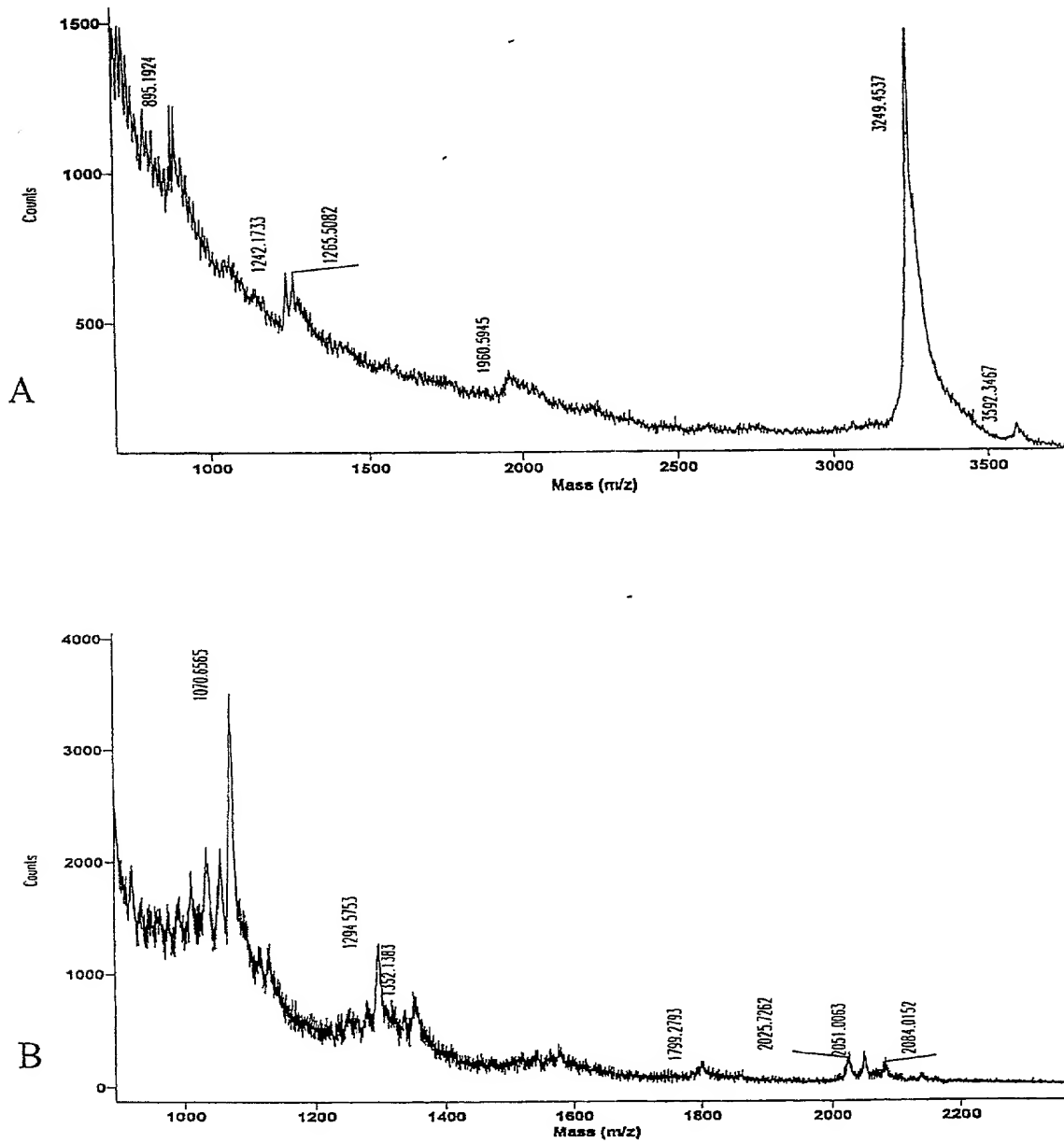


Fig. 4

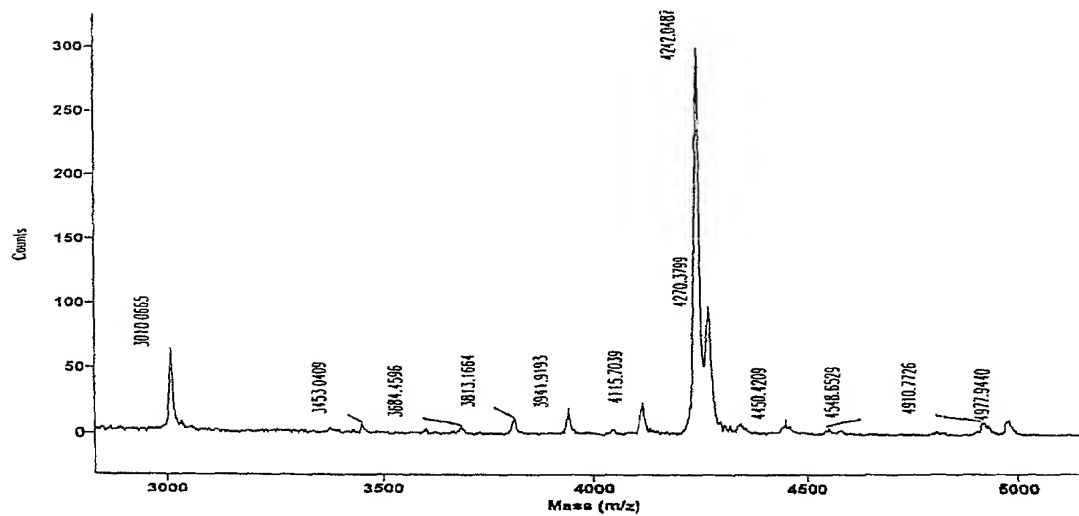
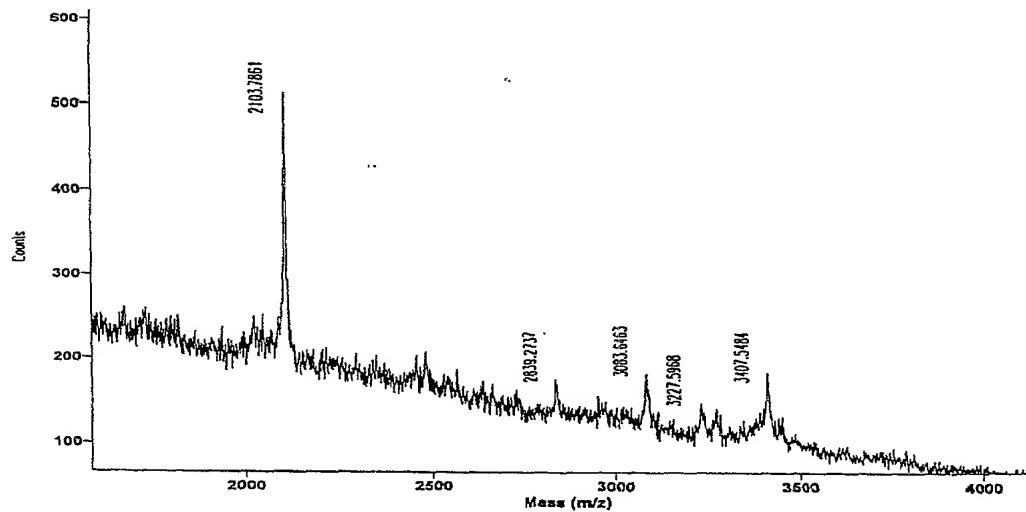


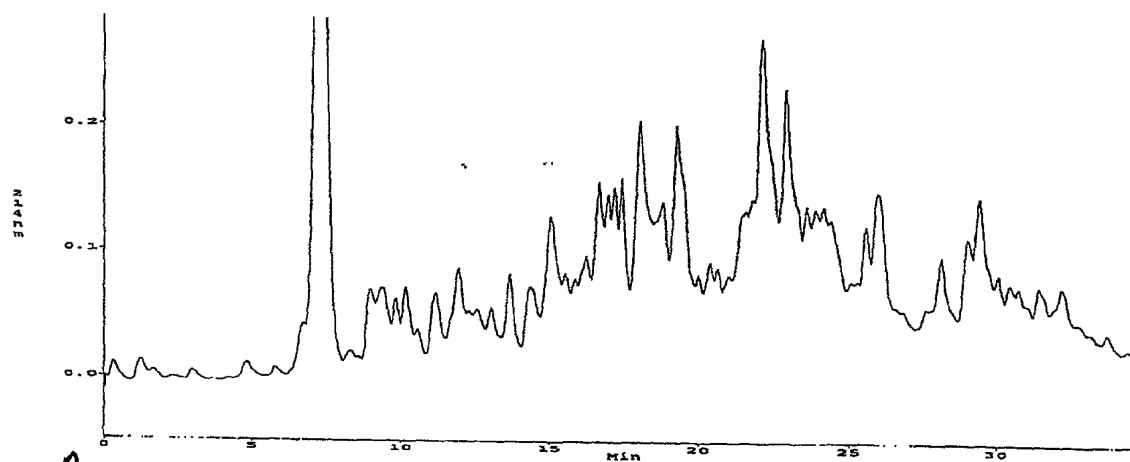
Fig. 4 (continued)

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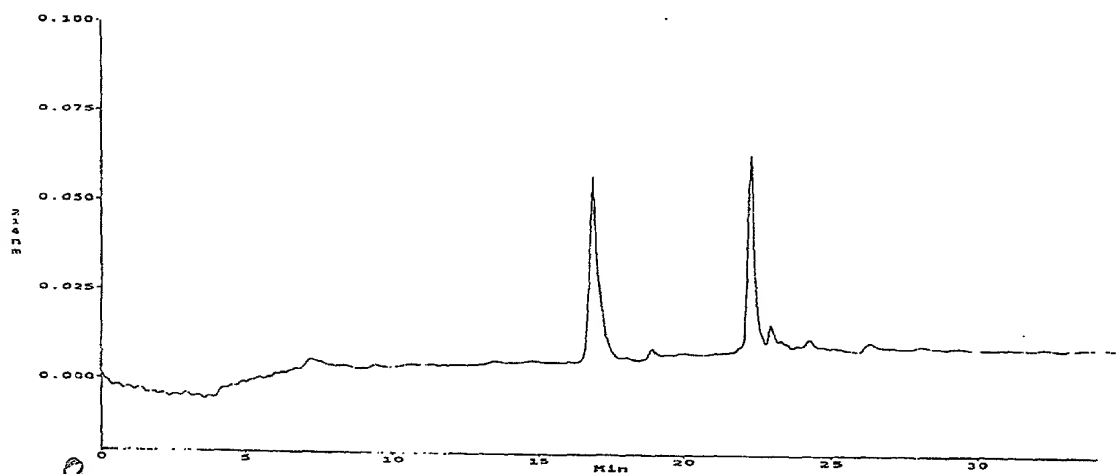
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A



B

Fig. 5

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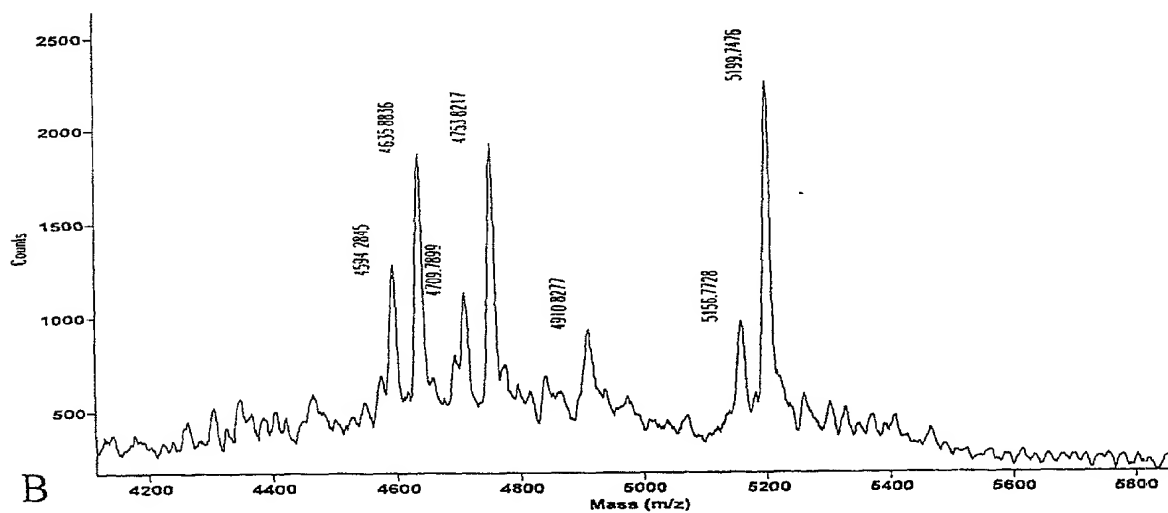
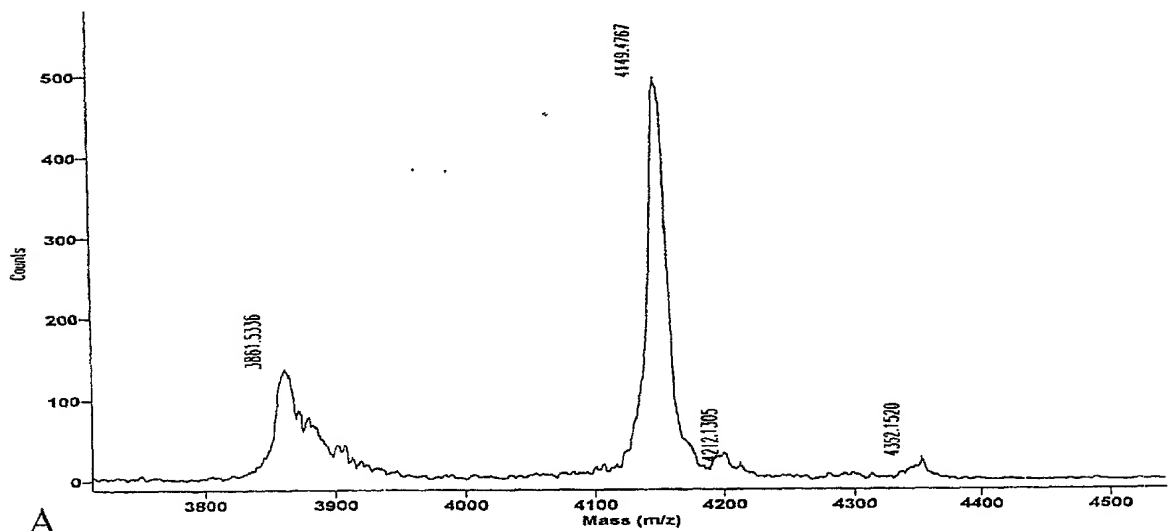


Fig. 6

File: AFFINITY SELECTED SIGNATURE PEPTIDES FOR PROTEIN IDENTIFICATION AND
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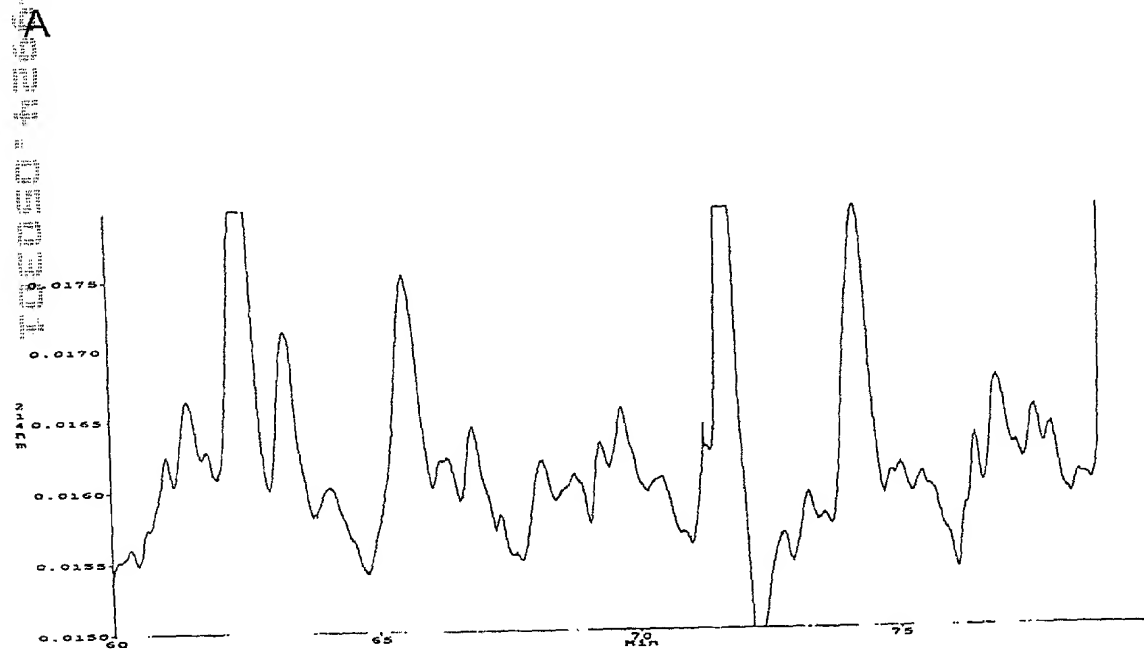
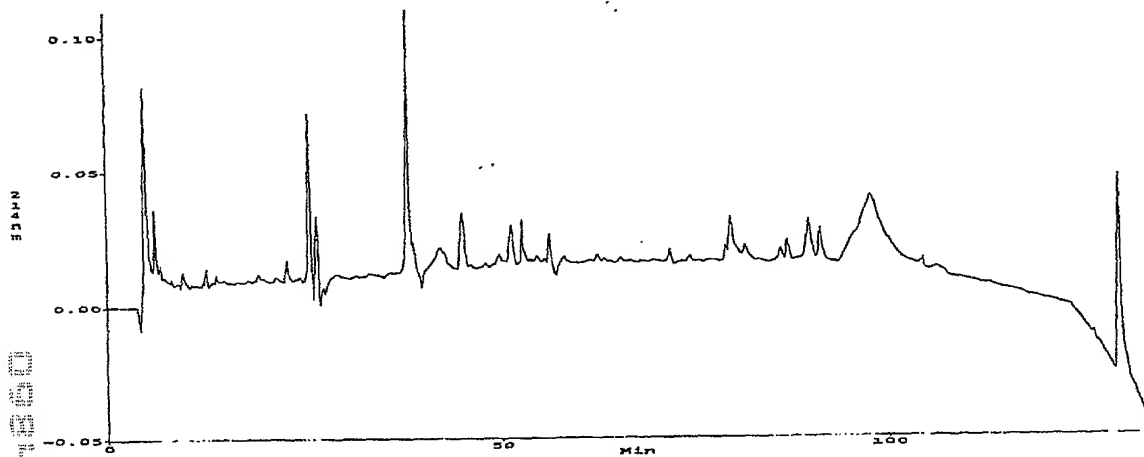


Fig. 7

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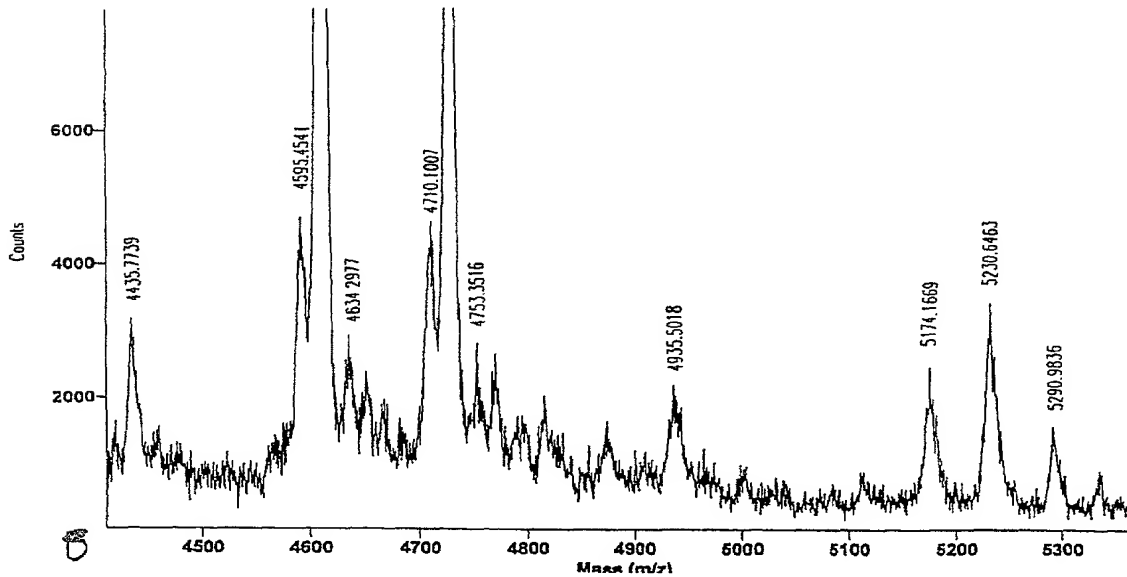
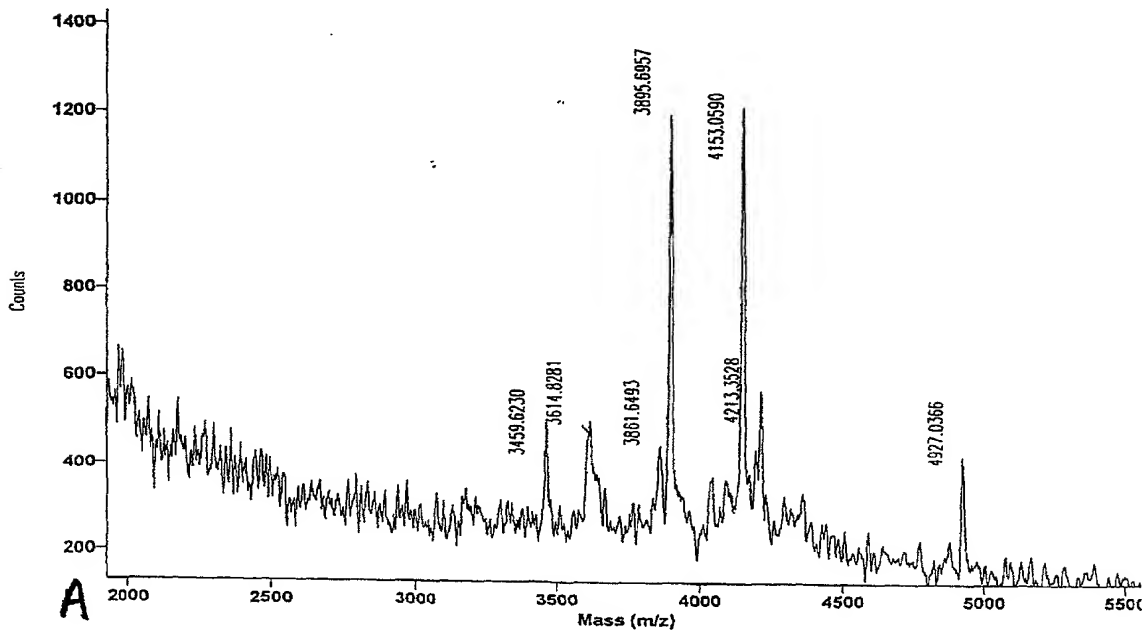


Fig. 8

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Lys-Asn-Asn-Gln-Lys-Ser-Glu-
Pro-Leu-Ile-Gly-Arg-Lys-Lys-
Thr-OH MW=1741

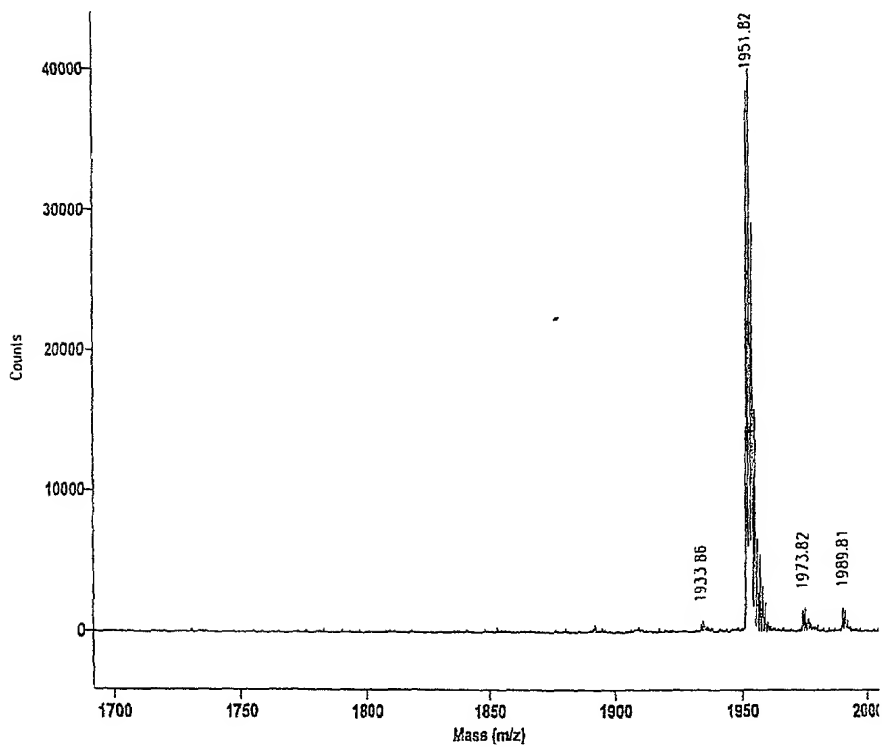
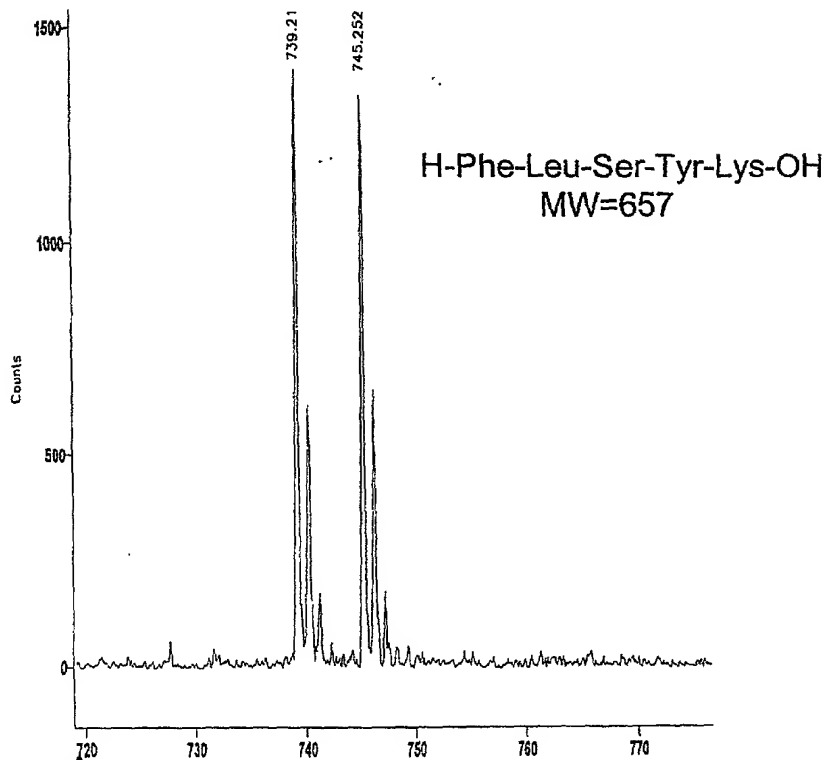
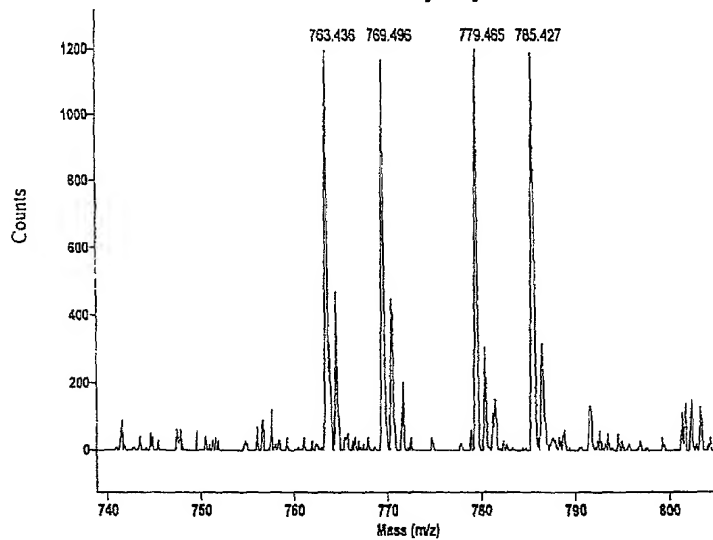


Fig. 9



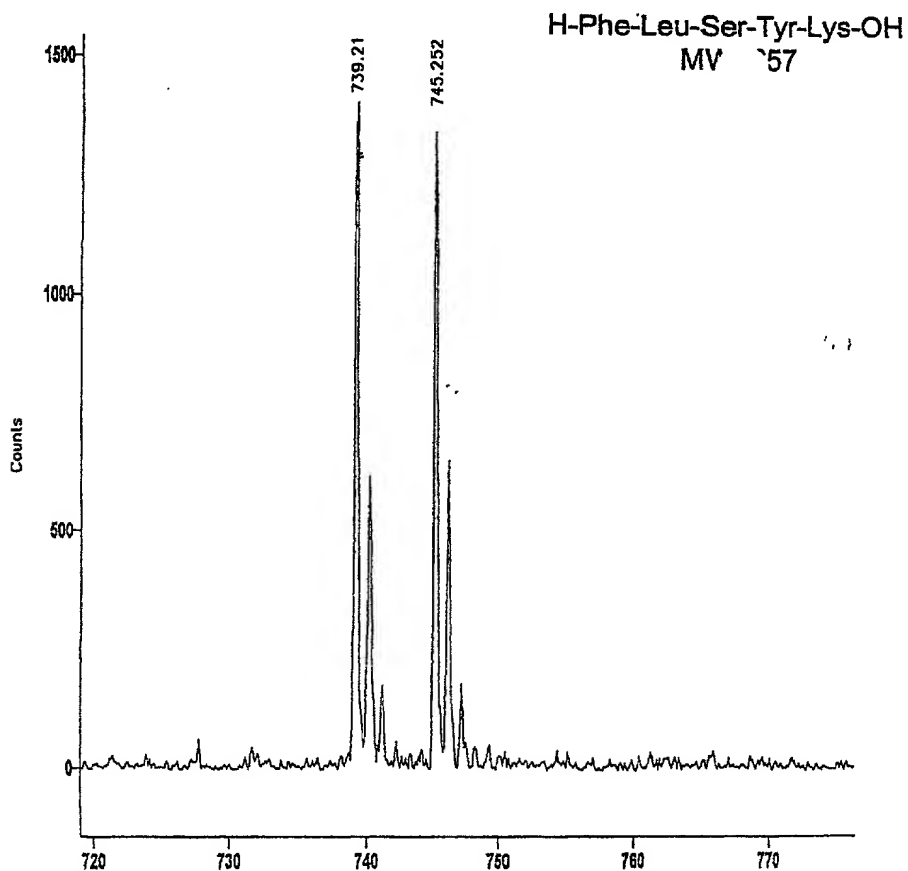
A

H-Phe-Leu-Ser-Tyr-Lys-OH MW=657



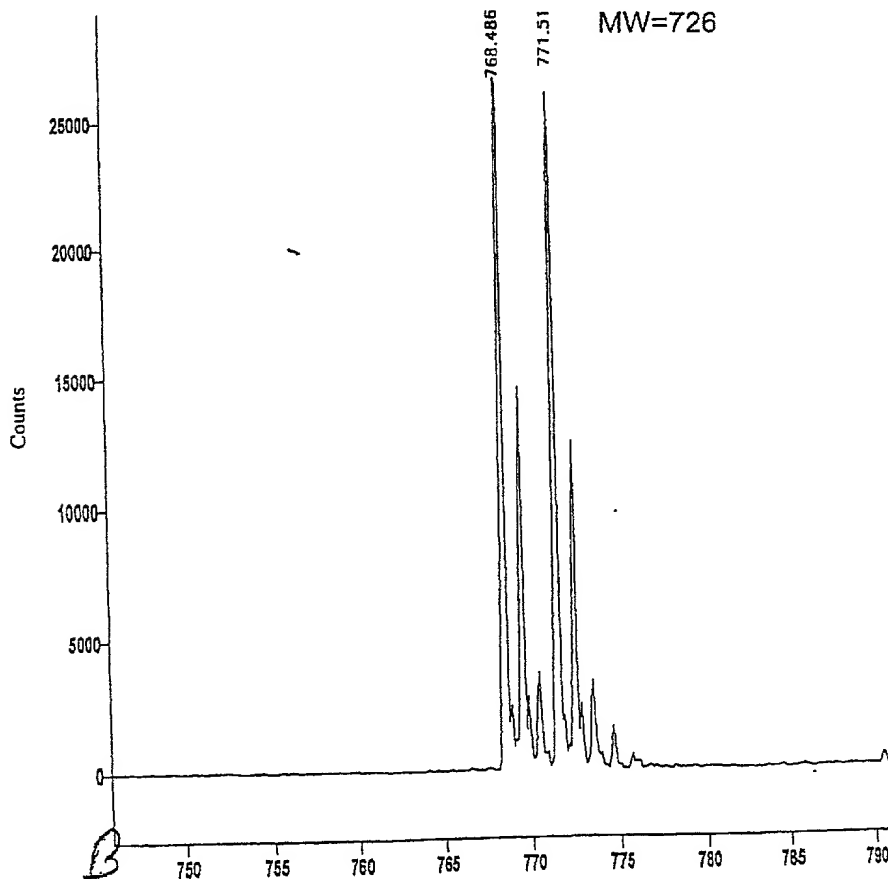
B

Fig. 10



A

NH₂-Tyr-D-Ala-Gly-Phe-Leu-Arg-OH
MW=726



B

Fig 11